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ABSTRACT

This is a survey bibliography designed to familiarize those interested in planning with the problems, issues, institutional contexts, and substantive content of the broad area of planning that affects aspects of the physical environment whose modification by man has significant effects on social welfare. The bibliography is organized in three parts: (1) the nature of the decisionmaking milieu and process, (2) various approaches to this milieu and process, and (3) the examination of specific environmental problems. (Author/MLF)

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PLANNING FOR ENVIRONMENTAL QUALITY

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PLANNING FOR ENVIRONMENTAL QUALITY

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This is a survey bibliography, designed to familiarize the planning student or anyone interested in planning with the problems, issues, institutional contexts and substantiative content of the broad area which can be called planning for environmental quality. The scope of the subject area can be defined, somewhat arbitrarily, as those aspects of the physical environment whose modification by man has significant effects on social welfare. Within this general definition emphasis is given to the specific problems of water and air quality management, solid wastes management, noise control, land and landscape deterioration, and irreversible modification or destruction of the natural landscape. Emphasis is also placed on the urban and metropolitan setting primarily because this is where the problems and issues are most acute.

The problem in organizing a bibliography of this broad scope is to provide a unifying theme and structure. The approach used here is to set forth a specific planning process, derived from rational planning principles that most planning students have been exposed to in courses in planning theory. Initially, various readings dealing with environmental quality in general are listed. It should be noted that the oldest works do not predate 1965 - a rough indication of the recent rise of a national concern for the quality of the environment. The list is not definitive, although most major sources are included.

As a base for readings on the environmental planning process, the next section deals with the various political and institutional settings within which decisions on environmental issues are made in the United States. The planning process readings ideally should be divided into four subsections under the headings of (a) setting objectives, (b) criteria and standards, (c) plan formulation, and (d) uncertainty and constraints. Due to the difficulty of separating the readings in this manner the more general breakdown used includes: introduction, the planning process, dealing with uncertainty, the utility of benefit-cost analysis, the role of standards, peak load pricing techniques, and legal aspects. These readings stress the necessity of having a close relationship between planning and management if environmental problems and issues are to be dealt with effectively.

Having established a planning and management framework, the contributions of selected theories and approaches that can be applied to environmental planning are examined through a series of representative readings. These deal with general systems theory, conservation, and the public policy implications of ecology. The above provides the framework and background for consideration of actual problems of air and water quality management, solid wastes management, and noise control. The references are by no means exhaustive, but represent a cross-section of useful material that is widely available. In sum, the bibliography is organized in three parts: (1) the nature of the decision making milieu and process; (2) various approaches to this milieu and process; and (3) the examination of specific environmental problems.

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to Current Literature on Air and Water Conservation" of the American Petroleum Institute.

Technical journals in the water pollution field include the Journal of the Water Pollution Control Federation, Journal of Soil and Water Conservation, Industrial Water and Wastes, Natural Resources Journal, Water Resources Research, and Water Works and Wastes Engineering.

AIR QUALITY MANAGEMENT

Useful references on air pollution are surprisingly few. The most definitive source is the 1968 edition of the three volumes edited by A. C. Stern. Wolozin's book is required reading for anyone interested in the economist's view of air pollution control. The national conference proceedings provide a wide ranging introduction to many aspects of the problem. Unfortunately, such material of current interest is in the form of contract research for the National Air Pollution Control Administration and therefore has limited circulation.

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This brief list provides an adequate introduction to material generally available. Additional material is found in the now somewhat out of date Air Pollution Publications - A Selected Bibliography 1963-1966, published by the Department of Health, Education and Welfare. The best source of material is the "Air Pollution Control Association Abstracts," found in each issue of the Journal of the Air Pollution Control Association.

Other publications abstracting air pollution literature include "Chemical Abstracts" of the American Chemical Society, "Subject Index to Current Literature on Air and Water Conservation" of the American Petroleum Institute, "Monthly Catalog of U. S. Government Publications" of the U. S. Government Printing Office, and "Public Health Engineering Abstracts" of the U. S. Department of Health, Education and Welfare. Technical journals in the air pollution field include Air Engineering, American Industrial Hygiene Association Journal, Chemical Engineering, Chemical and Engineering

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News, Contamination Control, Environmental Science and Technology, International Journal of Air and Water Pollution, and the Journal of the Air Pollution Control Association.

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Most publications in this poorly developed field deal with how-to-do-it approaches to local problems. The concept of comprehensive waste management is only now becoming a topic of discussion. The traditional source is Municipal Refuse Disposal.

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Since there is no one definitive source in this field, the following bibliographies are particularly useful for searching out additional material. The first one is brought up to date periodically.

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NOISE CONTROL

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Technical journals in the noise control field, which unfortunately contain few articles on policy, are Noise Control and Journal of Sound and Vibration.

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